

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A fixing device for injection needles, for pushing onto ~~a thread of~~ an injection apparatus comprising a threaded segment having a plurality of threads having a pitch, wherein said fixing device is formed as a cap comprising an open lower end and a closed upper end which holds a needle perpendicularly in the middle, and a surface area of the fixing device comprises at least three spring elements fixedly connected to the cap ~~in the region of the ends thereof~~ so that the fixing device is at least slightly spring-elastic in its circumference, the spring elements each comprising a bending beam[[s]] and a notched cam[[s]], each bending beam comprising a spring-elastic beam with a first end joined to the upper end of the cap and a second end joined to the lower end of the cap, [[said]] and each notched cam[[s]] comprising a surface substantially parallel to the surface area and tips and being fixed to [[the]] a center-point of the bending beam[[s]], wherein when said fixing device is positioned on the threaded segment of the injection apparatus, the bending beams of the at least three spring elements elastically deform such that the notched cams are directed to said threaded segment and at least one of the tips of at least two of said notched cams perpendicularly engag[[ing]]e with flights and provide at least three points of contact with [[of]] the threaded segment ~~when said cap is pushed onto the thread.~~
2. (Currently Amended) The fixing device for injection needles as set forth in claim 1, wherein each cam has at least two tips which perpendicularly engage with the threaded segment.
3. (Currently Amended) The fixing device for injection needles as set forth in claim 2, wherein said tips of the notched cams provide the at least three points of contact with the injection apparatus in at least two planes, ~~at least two of which are not in the same plane.~~
4. (Original) The fixing device for injection needles as set forth in claim 1, wherein the distance between the tips of each notched cam is at least equal to the height of said flight.

5. (Previously Presented) The fixing device for injection needles as set forth in claim 1, wherein the surface area of the cap comprises a wall, at least a portion of which is substantially rigid so as to not be elastically deformable.
6. (Canceled)
7. (Currently Amended) The fixing device for injection needles as set forth in claim 5, wherein the spring elements are segments of the surface area of the cap, made of the same material, which and the bending beams are connected to the cap in a material bond at the upper and lower ends and have a wall thickness which can be elastically deformed and is correspondingly smaller than that of the rigid surface area of the wall of the cap ~~, and comprise the notched cams~~.
8. (Currently Amended) The fixing device for injection needles as set forth in claim 7, wherein the cap, ~~[[its]]~~ the spring elements, the bending beams and ~~[[its]]~~ the notched cams are produced from one part.
9. (Original) The fixing device for injection needles as set forth in claim 8, wherein said one part is an injection-molded part.
10. (Original) The fixing device for injection needles as set forth in claim 9, wherein the one part is formed of a thermoplastic plastic.
11. (Original) The fixing device for injection needles as set forth in claim 10, wherein said thermoplastic plastic is PCTG (polycyclohexylene-dimethylene-therephthalate).
12. (Currently Amended) The fixing device for injection needles as set forth in claim 1, wherein the injection apparatus comprises a storage container, and wherein one end of the needle protrudes into the cap such that the one end of the needle penetrates into the storage container when the cap is pushed onto the threaded segment of the injection apparatus.

13. (Currently Amended) The fixing device for injection needles as set forth in claim 1, wherein the cap comprises a circumference and at least five spring elements with the bending beams and notched cams, said five spring elements at regular intervals around said circumference.

14. (Original) The fixing device for injection needles as set forth in claim 13, wherein the cap has an inner diameter of at least 9 mm.

15. (Original) The fixing device for injection needles as set forth in claim 1, wherein the needle is a hollow needle smaller than 30-gauge.

16. (Currently Amended) A device for connecting an injection needle to an injection apparatus comprising a threaded segment having a plurality of threads having a pitch, the device comprising spring elements, said spring elements each comprising a bending beam and a notched cam to provide tips, the bending beam comprising a spring-elastic beam with a first end joined to an upper end of the device and a second end joined to a lower end of the device, the tips joined to a central portion of the bending beams and providing a plurality of possible points of contact between the device and the injection apparatus in at least two planes, and wherein when said device is positioned on the injection apparatus, the points of contact of the tips engage with the threaded segment ~~injection apparatus~~ generally perpendicularly and ~~have associated~~ spring forces of the bending beams act[[ing]] generally perpendicularly on the threaded segment by way of the tips such that at least three points of contact are provided between the tips and the threaded segment of the injection apparatus.

17. (Cancelled)

18. (Currently Amended) The device as set forth in claim ~~[[17]]~~ 16, wherein each notched cam has at least two tips.

19. (Currently Amended) The device as set forth in claim 18, wherein said cams have a surface extending between the tips, such that the tips provide ~~thereby providing~~ at least two points of contact which are not in the same plane.

20-21. (Cancelled)

22. (Previously Presented) The device according to claim 16, wherein the spring elements are segments of a surface area of the device.

23. (Currently Amended) The device according to claim 16, wherein the cam tips are spaced from each other by a surface, the surface having a length which is substantially the same as the height of a portion of the threaded segment of the injection apparatus.

24. (Currently Amended) The device according to claim 16, wherein at least a portion of the device is substantially rigid so as to not be elastically deformable, [[and]] wherein the spring elements are segments of the device, made of the same material as the substantially rigid portion, which and wherein the bending beams are connected to the device in a material bond at the upper and lower ends and have a wall thickness which can be elastically deformed and is correspondingly less than that of the rigid portion of the device, and wherein the notched cams are made of the same material.

25. (Previously Presented) The device according to claim 16, wherein the device comprises a circumference and the spring elements are arranged at regular intervals around said circumference.